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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Robert C. Ladner et al.

Application No.: 09/837,306 Confirmation No.: 9730

Filed : April 17, 2001

For : NOVEL METHODS OF CONSTRUCTING LIBRARIES

OF GENETIC PACKAGES THAT COLLECTIVELY DISPLAY THE MEMBERS OF A DIVERSE FAMILY OF PEPTIDES, POLYPEPTIDES OR PROTEINS

Group Art Unit: 1632

Hon. Commissioner For Patents Washington, D.C. 20231

New York, NY 10020 March 27, 2002

# TRANSMITTAL LETTER FOR SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

Transmitted herewith is a Supplemental Information

Disclosure Statement in the above-identified application.

This Statement is submitted:

- [ ] within three months of the application filing date;
- [X] more than three months from the application filing date but before the mailing date of the first Office Action on the merits.

In accordance with 37 C.F.R. § 1.97, submission of this Statement requires no fee. However, if for any reason a fee is due, the Director is hereby authorized to charge payment of any fees required in connection with this

Supplemental Information Disclosure Statement to Deposit Account No. 06-1075. A duplicate copy of this letter is transmitted herewith.

Respectfully submitted,

Régistration No. 47,689

Agent for Applicants

Customer No. 1473

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New York, New York 10020

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## SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §§ 1.56 AND 1.97(b)(3)

Sir:

Pursuant to 37 C.F.R. §§ 1.56 and 1.97, applicants hereby make the following publications of record in the above-identified patent application:

## FOREIGN PATENT DOCUMENTS

WO 97/20923 PCT 06/12/97 WO 97/49809 PCT 12/31/97

### OTHER DOCUMENTS

Alves J. et al., "Accuracy of the EcoRV restriction endonuclease: binding and cleavage studies with oligodeoxynucleotide substrates containing degenerate recognition sequences," *Biochemistry*, 34(35):11191-11197 (1995).

Grimes E. et al., "Achilles' heel cleavage: creation of rare restriction sites in  $\lambda$  phage genomes and evaluation of additional operators, repressors and restriction/modification systems," *Gene*, 90(1):1-7 (1990).

Hasan N. and Szybalski W., "Control of cloned gene expression by promoter inversion in vivo: construction of improved vectors with a multiple cloning site and the  $P_{\text{tac}}$  promoter," *Gene*, 56(1):145-151 (1987).

Kaczorowski T. and Szybalski W., "Genomic DNA sequencing by SPEL-6 primer walking using hexamer ligation," Gene, 223(1-2):83-91 (1998).

Kim S.C. et al., "Structural requirements for FokI-DNA interaction and oligodeoxyribonucleotide-instructed cleavage," J. Mol. Biol., 258(4):638-649 (1996).

Kim S.C. et al., "Cleaving DNA at any predetermined site with adapter-primers and class-IIS restriction enzymes," Science, 240(4851):504-506 (1988).

Koob M. et al., "RecA-AC: single-site cleavage of plasmids and chromosomes at any predetermined restriction site," *Nucleic Acids Res.*, 20(21):5831-5836 (1992).

Koob M. and Szybalski W., "Cleaving yeast and Escherichia coli genomes at a single site," Science, 250(4978):271-273 (1990).

Koob M. et al., "Conferring operator specificity on restriction endonucleases," *Science*, 241(4869):1084-1086 (1988).

#### OTHER DOCUMENTS CONT'D

Koob M. et al., "Conferring new specificity upon restriction endonucleases by combining repressor-operator interaction and methylation," *Gene*, 74(1):165-167 (1988).

Kur J. et al., "A novel method for converting common restriction enzymes into rare cutters: integration host factor-mediated Achilles' cleavage (IHF-AC)," Gene, 110(1):1-7 (1992).

Podhajska A.J. and Szybalski W., "Conversion of the Fok-I endonuclease to a universal restriction enzyme: cleavage of phage M13mp7 DNA at predetermined sites," Gene, 40(1):175-182 (1985).

Podhajska A.J. et al., "Conferring new specificities on restriction enzymes: cleavage at any predetermined site by combining adapter oligodeoxynucleotide and class-IIS enzyme, *Methods Enzymol.*, 216(G):303-309 (1992).

Pósfai G. and Szybalski W., "A simple method for locating methylated bases in DNA using class-IIS restriction enzymes," Gene, 74(1):179-181 (1988).

Szybalski W., "Reasons and risks to study restriction/modification enzymes form extreme thermophiles: chilly coldrooms, 13th sample, and 13-codon overlap," Gene, 112(1):1-2 (1992).

Szybalski W., "Universal restriction endonucleases: designing novel cleavage specificities by combining adapter oligodeoxynucleotide and enzyme moieties," Gene, 40(2-3):169-173 (1985).

Szybalski W. and Skalka A., "Nobel prizes and restriction enzymes," Gene, 4(3):181-182 (1978).

Szybalski W. et al., "Class-IIS restriction enzymes-a review." Gene, 100:13-26 (1991).

Thielking V. et al., "Accuracy of the EcoRI restriction endonuclease: binding and cleavage studies with oligodeoxynucleotide substrates containing degenerate recognition sequences," Biochemistry, 29(19):4682-4691 (1990).

Zhu D., "Oligodeoxynucleotide-directed cleavage and repair of a single-stranded vector: a method of sitespecific mutagenesis, " Analytical Biochemistry, 177(1):120-124 (1989).

Copies of the aforementioned references, which are listed on the accompanying Form PTO-1449 (submitted in duplicate) are enclosed herewith.

Consideration of the foregoing in relation to this patent application is respectfully requested.

Respectfully submitted,

Registration No. 47,689 Agent for Applicants

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**APPROPRIATE** 

FORM PTO-14		ARTMENT OF COMMERCE AND TRADEMARK OFFICE		ATTY. DOCKE DYAX/002		APPLICATION 09/837,306	
F E SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANTS				APPLICANTS Robert C. Ladner et al.		CONFIRMATA 9730	
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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING	

FOREIGN PATENT	<b>DOCUMENTS</b>

EXAMINER	DOCUMENT	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
INITIAL	NUMBER					YES	NO
	WO 97/20923	06/12/97	PCT				
	WO 97/49809	12/31/97	PCT				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER INITIAL	
	Alves J. et al., "Accuracy of the EcoRV restriction endonuclease: binding and cleavage studies with oligodeoxynucleotide substrates containing degenerate recognition sequences," <i>Biochemistry</i> , 34(35):11191-11197 (1995).
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	Kim S.C. et al., "Cleaving DNA at any predetermined site with adapter-primers and class-IIS restriction enzymes," <i>Science</i> , 240(4851):504-506 (1988).

**EXAMINER** 

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not conformance and not considered. Include copy of this form with next communication to applicants.

FORM PTO-1449

APR 0 1 2002

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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.
DYAX/002

APPLICANTS
Robert C. Ladner et al.

STATEMENT BY APPLICANTS

FILING DATE GRO April 17, 2001 1632

3 2002 1 1600/290

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER INITIAL	
	Koob M. et al., "RecA-AC: single-site cleavage of plasmids and chromosomes at any predetermined restriction site," <i>Nucleic Acids Res.</i> , 20(21):5831-5836 (1992).
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